Polaris Sales Inc. Emergency: 800-424-9300

2100 Highway 55

Medina, MN 55340 Information: 763-542-0500

SECTION 1 CHEMICAL PRODUCT IDENTIFICATION

Product: Indian Extended Life Antifreeze 50-50 Pre-mix (embittered)

Synonyms/Other: 50/50 anti-freeze, 50-50 Coolant

MSDS Code: 13032

Product Type: Glycol antifreeze Revision Date: 12/12/2014

SECTION 2	COMPOSITION INFORMATION					
INGREDIENTS	CAS#	%	OSHA TWA	OSHA STEL	ACGIH TWA	SKIN
Ethylene glycol	107-21-1	45-50	50 ppm (aerosol)	NA	127 mg/m ³ (ceiling)	NO
Water Organic Acid Salts	7732-18-4 Proprietary	<50 <5	NA NA	NA NA	NA NA	NO NO

Comments: The balance of ingredients are not classified as hazardous.

SECTION 3 HAZARDOUS IDENTIFICATION

WARNING: - HARMFUL IF SWALLOWED

- MAY CAUSE DIZZINESS AND DROWSINESS

- MAY CAUSE EYE IRRITATION

- ASPIRATION HAZARD IF SWALLOWED, CAN ENTER LUNGS

- CAN CAUSE KIDNEY DAMAGE IF SWALLOWED

Eye contact: Direct contact may cause irritation, redness, tearing and blurred vision.

Skin contact: Brief contact may cause slight irritation. Prolonged contact, as with clothing

wetted with material, may cause more severe irritation and discomfort, seen as

local redness and swelling.

Other than the potential skin irritation effects noted above, acute (short term)

adverse effects are not expected from brief skin contact.

Inhalation: Vapors or mist, in excess of permissible concentrations, or in unusually high

concentrations generated from spraying, heating the material or from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose

and throat, headache, nausea and drowsiness.

Ingestion: Contains ethylene glycol and diethylene glycol, which are toxic when

swallowed. A lethal dose for an adult is 1-2 mL per kilogram, or about 4 ounces (1/2 cup). Symptoms include headache, weakness, confustion, dizziness, staggering, slurred speech, loss of coordination, faintness, nausea and vomiting, increased heart rate, decreased blood pressure, difficulty in breathing and seeing, pulmonary edema, unconsciousness, convulsions, collapse, and coma. Symptoms may be delayed. Decreased urine output and kidney failure

may also occur. Severe poisoning may cause death.

Other: Aspiration may occur during swallowing or vomiting, resulting in lung damage.

SECTION 4 FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Hold

eyelids apart while flushing to rinse entire surface of eye and lids with water.

Get medical attention.

Skin contact: Wash skin with plenty of soap and water for several minutes. Get medical

attention if skin irritation develops or persists.

Inhalation: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get

medicla attention if breathing becomes difficult or respiratory irritation persists.

Ingestion: If person is conscious and can swallow, immediately give two glasses (16

ounces) of water. Induce vomiting as directed by medical personnel. Get Never give anything by mouth to an unconscious or medical attention.

convulsing person.

Ethylene glycol (EG) and diethylene glycol (DEG) intoxication may initially produce behavioral changes, drowsiness, vomiting, diarrhea, thirst, and

convulsions. EG and DEG are nephrotoxic (kidney damaging). End stages of poisoning may include renal damage or failure with acidosis. Supportive measures, supplemented with hemodialysis if indicated, may limit the

progression and severity of toxic effects.

For ethylene glycol poisoning intravenous ethanol is a recognized antidotal treatment; other antidotal treatments also exist for EG poisoning. Due to structural and toxicological similarities between EG and DEG, intravenous ethanol may be of benefit.

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration - such as gastric lavage after endotracheal intubation. Contact a poison center for additional treatment information.

SECTION 5

Other:

FIRE FIGHTING MEASURES

Flash point: Will not burn until water is boiled off. Concentrate=127°C (260°F) typical by

ASTM D 92 (COC) for ethylene glycol.

Flammable limits: Extinguishing media: (% volume in air) Lower 3.2

Use water spray, dry chemical, alcohol foam, all purpose AFFF or carbon

dioxide to extinguish fire.

Special firefighting procedures:

Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect

personnel attempting to stop a leak.

Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire.

Fire fighters must wear MSHA/NIOSH approved positive pressure breathing

apparatus (SCBA) with full face mask and full protective equipment.

Unusual fire & explosion hazards:

Dense smoke may be generated while burning. Toxic fumes, gases or vapors may evolve on burning. Heavy flammable vapors may settle along ground level and low spots to create an invisible fire hazard. The vapors may extend to

sources of ignition and flash back.

Byproducts of combustion:

Fires involving this product may release COx, NOx, SOx, reactive hydrocarbons

and irritating vapors.

Autoignition temperature:

Not determined.

Explosion data:

Not determined. Care should always be exercised in dust/mist areas. Other:

Water will boil off before flash point's occur in the diluted (RTU and 50/50) fluids

if open to air.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Spill control procedures (land):

Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. If a large spill (5,000 pounds or

~500 gallons) occurs notify appropriate authorities according to SARA 304 and/or CERCLA 102(a) requirements.

Spill control

procedures (water): Material will readily mix with water. If a large spill occurs notify appropriate authorities (normally the National Response Center or Coast Guard).

Waste disposal method:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous. All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when

spilled. See Section 14.

Other: To prevent contamination of drinking water supplies, and poisoning of children,

aquatic life, wildlife, and farm and domestic animals, ethylene glycol products should never be discarded onto the ground, into surface waters, or into storm

sewers

SECTION 7 HANDLING AND STORAGE

Handling procedures: Keep containers closed when not in use. Do not transfer to unmarked

containers. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

Storage procedures: Periods of exposure to high temperatures should be minimized. Water

contamination should be avoided.

Additional information: No additional information.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection: Applicable mainly to persons in repeated contact situations such as packaging

of product, service/maintenance, and cleanup/spill control personnel.

Respiratory protection: None required if airborne cnocentrations are maintained below threshold limits

listed on page one. Otherwise a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form

dust/mist air purifying respirator.

Eye protection: Eye protection is strongly recommended. If material is handled such that it

could be splashed into the eyes, wear safety glasses with side shields or

vented/splash proof goggles (ANSI Z87.1 or approved equivalent).

Hand protection: Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization

and absorption.

Other protection: Use of an apron and overboots of chemically impervious materials such as

neoprene or nitrile rubber is recommended to avoid skin sensitization and absorption. If handling hot material use insulated protective equipment. Launder soiled clothes. Properly dispose of contaminated leather articles and

other materials which cannot be decontaminated.

Local control measures:

Use adequate ventilation when working with material in an enclosed area. Mechanical methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure. Eyewash stations and showers should be available in areas where this material

is used and stored.

Other: Consumption of food and drink should be avoided in work areas where product

is present. Always wash hands and face with soap and water before eating,

drinking or smoking.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor pressure: <0.01 mm Hg at 20°C (68°F).

Specific

gravity(H2O=1):

Solubility: Soluble in water.

Percent volatile(VOC): NDA Vapor density (air=1): 2.1

Evaporation rate (n-Butyl Acetate=1):

(n-Butyl Acetate=1):Not determined.Odor:Mild, sweet odor.Appearance:Yellow - Green liquidBoiling point:129.4°C (+265°F)(typical)

Other: pH 8 to 8.6.

SECTION 10 STABILITY AND REACTIVITY

Stability: Material is stable at room temperatures and pressure. **Conditions to avoid:** Avoid high temperatures and product contamination.

Incompatibility with

other materials: Avoid contact with acids and oxidizing materials.

Decomposition products:

Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete

combustion. Oxides of carbon and organic acid salts, reactive hydrocarbons

and irritating vapors.

Hazardous

Other:

polymerization: Will not occur. **Other:** Not applicable.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral toxicity: See Section 3 and 4. Animal data does not reflect human toxicity.

Dermal toxicity: LD50 believed to be <1.00 - 2.00 g/kg (rabbit), slightly toxic.

Inhalation toxicity: Not determined.

Dermal sensitization: Skin (Draize) Believed to be >0.50 - 3.00 / 8.0 (rabbit), slightly irritating.

Eyes (Draize) Believed to be >15.00 - 25.00 / 110 (rabbit), slightly irritating.

Chronic toxicity: Not determined.

Carcinogenicity: Material contains items not listed by OSHA, IARC or NTP.

Mutagenicity: Not determined.

Reproductive toxicity: Oral administration of ethylene glycol to pregnant experimental animals has

been shown to cause birth defects in offspring. These effects were not seen when ethylene glycol was administered by dermal application or by inhalation. Continuous ingestion of a diet containing 1 or 2% ethylene glycol for two yearts

produced liver and kidney damage, and bladder stones in rats.

SECTION 12 ECOLOGICAL INFORMATION

Environmental toxicity: This material may be toxic to aquatic organisms and should be kept out of

sewage and drainage systems and all bodies of water.

Environmental fate: Not determined.

Other: These materials are estimated to have a moderate (>=30%) rate of

biodegradation in a test for ready biodegradation. Materials are estimated to

have a low potential to biocencentrate.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste disposal: See Section 6. Under RCRA it is the responsibility of the user of the product to

determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. This product unadulterated by other materials may be classified as a non-regulated waste in some areas - but still needs to be disposed of at approved facilities. Waste management should be in full

compliance with federal, state, and local laws.

Disposal consideration: Antifreeze may be reclaimed. Contact local garages/shops for disposal. Also

look in a local telephone directory or internet for headings under, 'Waste', 'Waste Services', 'Waste Disposal' for companies licensed to handle such material. Additional information can be obtained from local EPA, DNR, Sewer and Land-Fill sites. Unused, packaged fluids may be donated to other

companies or charities (fluids MUST be unused).

Other: The transportation, storage, treatment and disposal of RCRA waste material

must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state, and local

regulations.

SECTION 14

TRANSPORT INFORMATION

LAND (DOT)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,

N.O.S. (Ethylene Glycol) **Hazard Class & Division:** 9

ID Number: 3082 Packing Group: III

Product RQ: 10638.3 LBS - ETHYLENE GLYCOL

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS

SUBSTANCES, LIQUID, N.O.S. (Ethylene Glycol), 9, PG III, RQ

Footnote: This material is not regulated under 49 CFR when the quantity in a package is

less than the Product RQ.

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

Clean water act/oil

pollution act: Contact the National Response Center at 800-424-8802 in the case of a spill

that enters waterways.

TSCA: All components of this material are listed in the U.S. TSCA Inventory.

Other TSCA: Not applicable.

SARA Title III: Section 302/304 extremely hazardous substances:

None.

Section 311, 312 hazard categorization:

Acute (immediate health effects): YES
Chronic (delayed health effects): YES
Fire (hazard): NO
Reactivity (hazard): NO
Pressure (sudden release hazard): NO

Pressure (sudden release hazard): Section 313 toxic chemicals:

1,2 ethanediol (CAS 107-21-1) 97% maximum.

CERCLA: For stationary sources – reportable quantity:

5000 pounds due to ethylene glycol. For moving sources – reportable quantity: 5000 pounds due to ethylene glycol.

Other: Recommend contacting the local authorities in the event of any type of spill to

determine local reporting requirements and also to aid in the cleanup.

WHMIS Classification:

Class D, Div 1, Subdiv B: Toxic. Class D, Div 2, Subdiv A: Teratogenic.

Class D, Div 2, Subdiv B: Chronic toxic effects.

Ethylene glycol appears on the following State list(s):

Florida Toxic Substance.

Massachusetts Hazardous Substances (Codes 4 and F9).

Pennsylvania Hazardous Substances (Code E).

Diethylene glycol appears on the following State list(s): Pennsylvania Hazardous Substances.

SECTION 16	OTHER INFORMATION				
	NFPA 704	NPCA-HMIS	KEY		
HEALTH:	1	2	0 = Minimal		
FIRE:	1	1	1 = Slight		
REACTIVITY:	0	0	2 = Moderate		
SPECIFIC HAZARD:	NONE	N/A	3 = Serious		
PROTECTION INDEX:	N/A	В	4 = Severe		

Precautionary labels: - HARMFUL IF SWALLOWED

- MAY CAUSE DIZZINESS AND DROWSINESS

- MAY CAUSE EYE IRRITATION

- ASPIRATION HAZARD IF SWALLOWED, CAN ENTER LUNGS

- CAN CAUSE KIDNEY DAMAGE IF SWALLOWED

This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used. Polaris must rely on information provided by those materials manufacturers or distributors.

Creation Date: 02/05/2014

File: Indian Extended Life Antifreeze 50-50 Pre-mix (embittered)

Version:

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Revisions / Comments: